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(54) Title: METHODS FOR SUSTAINING eNOS ACTIVITY

(57) Abstract: The present invention is directed to methods for sustaining eNOS activity to inhibit platelet aggregation, clot retraction, and enhance fibrinolysis. One embodiment of the invention provides methods of treating thrombosis by inhibiting the activity of the *syk* kinase. Another embodiment provides assays for the discovery of improved compounds to treat thrombosis, by screening for compounds which sustain eNOS activity. Yet another embodiment provides assays for the discovery of improved compounds to treat thrombosis, by identifying inhibitors of calpain and IIbIIIa by screening for compounds which act through calpain or IIbIIIa to sustain eNOS activity. Yet another embodiment provides for enhancing fibrinolysis, by inhibiting the activity of the *syk* kinase or calpain.

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